



THE UNIVERSITY OF ARIZONA
Yuma

VALLEY CATS

BIOSYSTEMS ENGINEERING 2022-2023

Year One			
Summer Before			
Course	Title	Units	Complete
CHEM 100	Intro to Chemistry	4	
MATH 190	Pre-Calculus	5	
Total		9	

Fall - Semester One			
Course	Title	Units	Complete
ENGL 110	Freshman English	4	
CHM 200~	General Chemistry I	5	
MATH 192~	Calculus I with Analytic	4	
IGETC	Area 3	3	
ENGR 100	Intro to Engineering Design	3	
Total		19	

Spring - Semester Two			
Course	Title	Units	Complete
ENGL 201	Freshman English	3	
MATH 194~	Calculus II with Analytic	4	
CHM 202~	General Chemistry II	5	
PHYS 200~	Mechanics	4	
Total		16	

Total Year 1		44	
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Year Two			
Fall - Semester Three			
Course	Title	Units	Complete
MATH 210~	Calculus III	4	
BIOL 180	Introductory Biology I	4	
ENGR 210	Statics	3	
IGETC	Area 3	3	
COMM 100	Oral Communication	3	
Total		17	

Summer			
Course	Title	Units	Complete
IGETC	Area 4 (choose 3)	9	

Spring - Semester Four			
Course	Title	Units	Complete
PHYS 202~	Electricity & Magnetism	4	
MATH 220	Differential Equations	3	
EGR 188~	Fundamentals EGR (AWC)	4	
IGETC	Area 3	3	
BIOL 182/AG 140	Introductory Biology II/Plant Sci.	4	
Total		18	

Total Year 2 Credits		44	
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~ pre-requisite courses for entry into UA program-
MUST have 2.0 GPA

Year Three

Fall - Semester Five			
Course	Title	Units	Complete
BE 201	Introduction to Biosystems	2	
BE 221	Introduction to Computer Aided	3	
BE 284	Biosystems Thermal Engineering	3	
BE 310	Introductions to Biosystems	3	
SIE 265	Engineering Management	3	
Total		14	

Spring - Semester			
Course	Title	Units	Complete
BE 205	Engineering Analytic Computer	3	
CE 218	Mechanics of Fluids	3	
ENGL 308	Technical Writing	3	
SIE 305	Engineering Probability and	3	
SIE 370	Embedded Computer Systems	4	
BE 493	Internship	1	
Total		17	

Total Year 3		31	
Total Year 4		31	

Year Four

Fall - Semester Seven			
Course	Title	Units	Complete
BE 385	Precision Observation with Drones	3	
BE 434	Biosystems Analytics (Tech2)	3	
BE 477	Sensors and Controls	3	
BE 455	Soil & Water Resources (Design 2)	3	
BE 498A	Senior Capstone	3	
BE 496A	Sem. ENGR Careers & Professionalism	1	
Total		16	

Spring - Semester			
Course	Title	Units	Complete
SIE 330R	EGR Design of Experiments(3	
BE 423	Biosystems Analysis and Design	3	
BE 498B	Senior Capstone	3	
PLS 475	Plant Physiology (Tech 2)	3	
BE 485	Remote Sensing (Design 3)	3	
Total		15	

IVC Transfer (min)		65	
BS Degree		95	
Total		160	